MINISTRY OF DIGITAL DEVELOPMENT,
INNOVATIONS AND AEROSPACE INDUSTRY

ON THE IMPLEMENTATION OF
«DIGITAL KAZAKHSTAN»
STATE PROGRAM
5 DIRECTIONS OF STATE PROGRAM

- DIGITALIZATION OF ECONOMY SECTORS
- TRANSITION TO DIGITAL STATE
- IMPLEMENTATION OF DIGITAL «SILK WAY»
- DEVELOPMENT OF HUMAN CAPITAL
- CREATION OF INNOVATIVE ECOSYSTEM

PROGRAM’S KPI

- UP TO 30% OF GDP GROWTH SINCE 2025 (1.7-2.2 trln. tenge)
- 97% OF POPULATION ARE PROVIDED WITH BROADBAND ACCESS TO THE INTERNET
- CREATION OF 300 THSD. WORKING PLACES
- 67 BLN. TENGE OF INVESTMENTS TO DIGITAL ECOSYSTEM

THE VISION OF THE FIRST PRESIDENT OF THE REPUBLIC OF KAZAKHSTAN
DIGITALIZATION DEFINES THE FUTURE OF ECONOMY IN KAZAKHSTAN
**DIRECTION 1: DIGITALIZATION OF ECONOMIC SECTORS**

**Digitalization of the FUEL and ENERGY COMPLEX**
- **17** work is underway to create 17 intellectual fields
  - 10 fields are created, including 3 fields in 2019
- **2** the transition of the Atyrau oil refinery and the Pavlodar petrochemical plant to an extended overhaul period has been completed
  - (from 1 year to 3 years)

**Total Benefits from Digital Projects for Economic Sectors:** 59.5 BILLION TENGE

**Digitalization of the INDUSTRY**
- **13** digital projects at 13 backbone enterprises of the mining and metallurgical complex
  - 27 projects out of 53 have been completed, including 14 projects in 2019
- **112** digital technologies are being introduced at 112 enterprises in the industry
  - 122 projects out of 263 were completed, including 68 projects in 2019
- **7** work is underway to create 7 model factories
  - 16 projects out of 51 have been completed, including 13 projects in 2019

**Total Benefits from Digital Projects for Economic Sectors:** 32.4 BILLION TENGE

**Digitalization of the AGRO-INDUSTRIAL COMPLEX**
- **49** Digital farms created
  - including 16 farms in 2019
- **28** crop farms
  - including 16 farms in 2019
- **21** livestock farms
  - including 6 farms in 2019

**Total Benefits from Digital Projects for Economic Sectors:** 2.5 BILLION TENGE

**Digitalization of E-COMMERCE**
- **579** new online stores are registered to receive tax benefits
  - by 1.3 times the number of online buyers has increased
  - (3.2 million people in 2019)
- **by 4 times** the volume of e-Commerce in the total retail trade has increased
  - (by 2017)

**Total Benefits from Digital Projects for Economic Sectors:** 3.7% Share of e-commerce

**Total Benefits from Digital Projects for Economic Sectors:** 94.4 BILLION TENGE
**DIRECTION 2: TRANSITION TO DIGITAL STATE**
**INTEGRATION OF INFORMATION SYSTEMS**

**INTEGRATION OF INFORMATION SYSTEMS**

- **344** integration implemented
- **182** by plan out of **196**
- **162** implemented additionally within automation of public services

**SMART BRIDGE PROJECT**

УПРОЩЕННЫЙ ПРОЦЕСС ВЗАИМОДЕЙСТВИЯ МЕЖДУ СИСТЕМАМИ ГОСОРГАНОВ И ЧАСТНЫМ БИЗНЕСОМ:

- from 3 months → to 1 month
- from 8 approvals → to 1 approval
- from 8 letters → to 0 letter
- from 4 tech.doc. → to 1 online form

**80,2%**

AUTOMATION OF PUBLIC SERVICES

**WORK OF INTER-MINISTERIAL COMMISSION**

BY **30%**

REDUCED NUMBER OF DOCUMENTS
(from 6 to 4 documents)

BY **3 TIMES**

REDUCED SERVICE TIME
(from 31 to 10 days)

ADOPTED LAW «ON PUBLIC SERVICES»

**PLANS FOR 2020**

MORE THAN **100** INTEGRATIONS

90% AUTOMATED PUBLIC SERVICES
DIRECTION 2: TRANSITION TO DIGITAL STATE
E-SERVICES AND MOBILE APPS

EGOV Platform
10.3 mln. users
more 800 services

EGOV MOBILE
58 services
TELEGRAM BOT
26 services

54,7 MLN.
DELIVERED SERVICES

ACCESS POINT
312 units
CONNECTION POINT
1425 units

TRAINING PROGRAMM
10.5 mln. people trained on government services

SERVICE FOR THIRD PARTIES
DIGITAL DOCUMENTS
FACE ID
TOUCH ID

PLANS FOR 2020
MORE
100
INCREASED SERVICES
EGOV MOBILE

100
MORE
INCREASED SERVICES
EGOV MOBILE
DIRECTION 2: TRANSITION TO DIGITAL STATE
UNIFIED PLATFORM OF INTERNET RESOURCES

1 SITE GOV.KZ

- **Unified platform for getting information on public agency**
- **Unified structure, design and navigation**
- **Increasing the quality and relevancy of the content**

Up to 2 BLN. Tenge

Reduction and optimization of costs for sites elaboration

310 Akimat sites and central government agencies will be in a single platform until the end of 2020

**Plans for 2020**

Till July 1 2020 completion of works on uploading the content to unified portal Central government offices (including committees)

Till October 1 2020 completion of works on uploading the content to unified portal 234 local executive agencies (including districts)

15 Sites

Public agencies, ready for launch on unified portal

- Committee of National Security Agency of Public Services
- Healthcare, of Energy, Agro-Industrial Complex, Samruk Kazyna
- Committee of Atomic and Energy Supervision and Control of the Ministry of Energy
- Committee for Quality Control and Safety of Goods and Services of the Ministry of, Treasury Committee, Akimat of Mangystau Region, of West-Kazakhstan Region, of Kyzylorda Region
DIRECTION 2: TRANSITION TO A DIGITAL STATE

**DIGITALIZATION OF HEALTHCARE**
- 83.8% connecting healthcare facilities to the internet (100% up to district level)
- 98.3% computer equipment of medical institutions (100% up to district level)
- By 50% saving time for doctors and patients (reduction of service time in polyclinics)

**DIGITALIZATION OF SOCIAL AND LABOR SPHERE**
- 533 thousand people employed (via electronic labor platform):
  - 383 thousand permanent jobs
  - 149.7 thousand temporary jobs
- 14 government services delivered in proactive format

**DIGITALIZATION OF THE FINANCIAL SECTOR, TAX AND CUSTOMS ADMINISTRATION**
- 73% online cash registers introduces (570,0 thousand cash registers)
- 81% customs declarations were issued automatically in 1 minute (1.3 million)
- By 1,8 times increased amounts of tax payments in electronic format
- By 2.3 times the volume of non-cash transactions using payment cards has increased

**TOTAL BENEFITS FROM DIGITALIZATION OF HEALTHCARE, SOCIAL AND LABOR SPHERE, FINANCIAL SECTOR, TAX AND CUSTOMS ADMINISTRATION**

472.73 billion tenge
DIRECTION 2: TRANSITION TO A DIGITAL STATE
CREATING “SMART” CITIES

REFERENCE STANDARD FOR BUILDING SMART CITIES
applying common approaches to building smart cities using ICT

INTERNAL RATING OF CITIES

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SAFETY
7 KPI
8 INITIATIVES

HEALTHCARE
6 KPI
7 INITIATIVES

EDUCATION
7 KPI
16 INITIATIVES

UTILITIES SECTOR
12 KPI
12 INITIATIVES

TRANSPORT AND LOGISTICS
13 KPI
13 INITIATIVES

LAUNCH OF THE UNIFIED DUTY AND DISPATCH SERVICE-112 IN THE CITIES OF KAZAKHSTAN

100%

PLANS FOR 2020

INTRODUCTION OF NON-CASH PAYMENT SYSTEMS FOR PUBLIC TRANSPORT

IMPLEMENTATION OF VIDEO MONITORING AND SECURITY CONTROL SYSTEMS

PROVISION BY AKIMATES OF AGREEMENT OF DIGITAL PROJECTS AND COSTS WITH MINISTRIES AND AUTHORIZED GOVERNMENT ORGANIZATIONS

ECOLOGY
5 KPI
5 INITIATIVES

SOCIAL SPHERE
3 KPI
3 INITIATIVES

URBAN MANAGEMENT
11 KPI
14 INITIATIVES

BUSINESS AND TOURISM
13 KPI
13 INITIATIVES

CONSTRUCTION
2 KPI
2 INITIATIVES

AGRICULTURE
2 KPI
2 INITIATIVES
A UNIFIED PLATFORM FOR RENDERING SERVICES IN THE FIELD OF LAND RELATIONS (A pilot of Aktyubinsk, Atyrau regions) was created.

UNIFIED REQUIREMENTS FOR REGIONAL CADASTRAL SYSTEMS APPROVED.

FILLING A PUBLIC CADASTRAL MAP AND INTEGRATION WITH GEO PORTALS OF MIO (orthophotomaps of cities of republican significance and regional centers are uploaded to the PCM) and JSC "NC" GARYSH SAPARY "(a satellite image with a resolution of 6.5 meters and the results of space monitoring) are uploaded to the PCM.

ADJUSTMENTS INTO LSI
Ministry of Agriculture


PLANS FOR 2020

FILLING OF LOCAL EXECUTIVE AGENCIES GEOPORTALS till SEPTEMBER 1, 2020

100%

LOCAL EXECUTIVE AGENCIES TILL OCTOBER 1, 2020:

• CARRYING OUT INTEGRATION OF GEOPORTALS WITH IS UNIFIED PUBLIC REAL ESTATE REGISTER;
• LAUNCHING ONLINE SERVICES "PROVISION OF LAND PLOTS"
ПЛАНЫ ДЛЯ 2020

Организация и хранение данных

Биг Дата
Хранилище данных
Аналитическое хранилище

Модуль машинного обучения
Модуль аналитики и прогнозирования
Модуль визуализации

Модуль машинного обучения
Модуль аналитики и прогнозирования
Модуль визуализации

SOCIAL SPHERE: ALLOCATION OF GRANTS DEPENDING ON DEMAND
FINANCES: THE FIGHT AGAINST THE SHADOW ECONOMY
HEALTHCARE: COST ANALYSIS AND OPTIMIZATION
EDUCATION: ANALYSIS OF THE OUTPUT OBJECTS OF THE OPERATION

Всего 187 МДЗ

Потенциальные направления анализа

ОСНОВНАЯ РЕАГИРОВАЛЬНАЯ СИСТЕМА:
СТРОИТ МОДЕЛЬ СОЦИО-ЭКОНОМИЧЕСКОГО РАЗВИТИЯ КАЗАХСТАНА К 2023 ГОДУ

Направление: транспорт
Случай: строительство и ремонт дорог

Направление: энергетика
Случай: анализ жизненного цикла нефтяных продуктов

Направление: социальная защита
Случай: прогноз объемов пенсий

Информационная система, связанная с 5 государственными органами

41

Планируется соединение государственных информационных систем с репозиторием к 2020 году

90

Планируется автоматизация социально-экономических индикаторов к 2020 году

100

AI разработки программы

НАЗАРБАЕВ УНИВЕРСИТЕТ
МИРОВОЙ БАНК
NITEC
Space System of Remote Sensing of the Earth

35 Industry Geoservices Detected

**Land Resources**
- Monitoring the rational use of land throughout the Republic of Kazakhstan - attracting unused land into circulation
- Land 9.6 million ha*
- Uncleared fields 54 thousand ha
- Illegal forest felling 46
- Unused earth 9.6 million ha*
- Uncleared fields 54 thousand ha
- Forest-steppe smokes 11.1 million ha
- Natural dump polygons 9,246

**Industry Geoservices**

- Remote Sensing Data Analysis Competence Center
- Industry Geoservice 50

**Plans for 2020**

- 2 times productivity increase
- 3 times increase in operativeness
- Big data
- Application of Machine Learning
- Operative access to radar images
- Subsoil Use
- Monitoring outing beyond the borders of contractual territories - increased fines
- Emergencies
- Flood forecasting and modeling - operative response to flood situations

**Removal of Unused Lands**
- Development of sites for 41 billion tenge*
- Returned to turnover of plots for 149 billion tenge*

**According to the information of the General Prosecutor’s Office**

- Returned unused lands
- Developed sites
- Returned plots

**Returned to turnover**
- 41 billion tenge*
- 149 billion tenge*

- 35 Industry Geoservices Detected
- 9.6 million ha*
- 54 thousand ha
- 46
- 9.6 million ha*
- 54 thousand ha
- 11.1 million ha
- 9,246

*according to the information of the General Prosecutor’s Office
ENSURING INFORMATION SECURITY

IMPLEMENTATION OF PROGRAM "CYBERSHIELD KAZAKHSTAN"

NATIONAL COORDINATION CENTER OF INFORMATION SECURITY WAS LAUNCHED (Republican State Enterprise "STATE TECHNICAL SERVICE" of the National Security Committee)

IN 2019 2,5 BILLION CYBERATTACKS WERE PREVENTED

OPERATIONAL CENTER OF INFORMATION SECURITY WAS LAUNCHED (NIT, JSC)

IN 2019 2,7 BILLION CYBERATTACKS WERE PREVENTED

from 63% to 73% INCREASED PUBLIC AWARENESS ABOUT CYBER SECURITY THREATS

from 60 to 674 INCREASED NUMBER OF EDUCATIONAL GRANTS FOR “INFORMATION SECURITY SYSTEMS” MAJOR

from 219 to 336 THE LIST OF CRITICALLY IMPORTANT OBJECTS OF INFORMATION-COMMUNICATION INFRASTRUCTURE IS EXTENDED

7 OPERATIONAL INFORMATION SECURITY CENTERS WAS LAUNCHED FOR THE FIRST TIME

16% VOLUME OF ELECTRONIC INDUSTRY PRODUCTION

from 82 to 40 KAZAKHSTAN’S PLACE INCREASED IN THE UNITED NATIONS’ GLOBAL CYBER SECURITY INDEX

20% INCREASE THE LOCAL CONTENT IN THE DEVELOPMENT OF SOFTWARE AND ELECTRONIC INDUSTRY

PERSONAL DATA PROTECTION

ORGANIZATION OF "WINDOW" ON APPLICATION OF TECHNOLOGICAL OPPORTUNITIES (OpenRAN, OpenSource)
DIRECTION 3: IMPLEMENTATION OF DIGITAL «SILK ROAD»

**504 VILLAGES CONNECTED ON FIBRE OPTIC LINES IN 2 YEARS**

**5G PILOT LAUNCHED** Nur-Sultan, Almaty, Shymkent

**IIoT INDUSTRIAL IoT** Nur-Sultan, Almaty, Shymkent, Akkol

**TCFO TRANSCASPIAN FIBER OPTIC**
Launched building of fiber optic lines at the bottom of the Caspian Sea on the route Kazakhstan - Azerbaijan (official launch with the participation of the Prime Minister of the Republic of Kazakhstan, Mamin A.U., was made on November 20, 2019, at the port of Kuryk, Mangistau region)

**PLAN WAS APPROVED AND MEMORANDUM WAS SIGNED AMONG MOBILE OPERATORS ON COLLABORATION TO COVER MORE THAN 1000 VILLAGES WITH BROADBAND ACCESS**

LAW “ON INTERNET ACCESSIBILITY” WAS DEVELOPED (LOWER CHAMBER OF PARLAMENT)

**OVERALL till the end of 2022:**

97% 17,9 mln. people will be provided with broadband access to the network Internet via FOCL

3% 500 thousand people get access to broadband access through satellite technology

**4 204 VILLAGES, COVERED WITH BROADBAND ACCESS**

**117 Cities**

**3 324 Villages**

**84,2% THE LEVEL OF PENETRATION OF BROADBAND TO HOUSE NETWORKS**

**93% COVERAGE OF THE INTERNET SERVICES OF THE POPULATION OF KAZAKHSTAN**
DIRECTION 4: DEVELOPMENT OF HUMAN CAPITAL

SCHOOL EDUCATION

100% schools are equipped with computer equipment (7 398 schools)

94.2% schools are provided with Internet access from 4 Mb/s, 6 976 schools from 7 398 schools (96.5% to district level)

3 и 4 GRADES introduced the basics of programming in curriculum 3 and 4 classes

SECONDARY VOCATIONAL AND HIGHER EDUCATION

Astana IT University opened; 600 study grants allocated

BY 3 TIMES an increase in grants for the training of information security specialists (1311 units for the 2019-2020 academic year)

18,9 THOUSAND allocated grants for the training of ICT specialists for the 2019-2020 academic year

17 new educational programs ("Business Analytics and Big Data", "IT analytics", "Smart technologies", "Computer Science", "Media technologies", "Robotic systems", "Data processing and analysis", etc.) were developed

INCREASING DIGITAL LITERACY OF POPULATION

532 ТЫС. population trained in basic digital competencies

669 ТЫС. professional staff in social field, agriculture and health trained in digital skills

79.6% LEVEL OF DIGITAL LITERACY OF POPULATION

INTRODUCTION OF THE BASIS OF THE PROGRAMMING IN THE EDUCATIONAL PROGRAM IN 1 CLASSES

INTRODUCTION OF NEW ICT EDUCATIONAL PROGRAMS IN HIGHER EDUCATION INSTITUTIONS

OPENING OF PROGRAMMING SCHOOLS IN NUR-SULTAN AND ALMATY

PLANS FOR 2020

80% REACHING THE LEVEL OF DIGITAL LITERACY
### DIRECTION 5: CREATING AN INNOVATION ECOSYSTEM

<table>
<thead>
<tr>
<th>Metric</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>100%</strong></td>
<td>EQUIPMENT OF THE INFRASTRUCTURE OF ASTANA HUB</td>
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<tr>
<td><strong>A SPECIAL TAX AND LABOR REGIME HAS BEEN CREATED</strong></td>
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<td><strong>THE LAW &quot;ON VENTURE FINANCING&quot; WAS SIGNED</strong></td>
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<td><strong>9</strong></td>
<td>R&amp;D LABORATORIES OPENED AT THE ASTANA HUB IN 2019 (17 laboratories in total)</td>
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<tr>
<td><strong>18.8 bln.tg</strong></td>
<td>INVESTMENT ATTRACTED</td>
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<tr>
<td><strong>2000</strong></td>
<td>PEOPLE HAVE PASSED ACCELERATION PROGRAMS, 6 acceleration programs were conducted</td>
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<tr>
<td><strong>91</strong></td>
<td>STARTUP PROJECTS, more than 124 projects within the incubation program</td>
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<td><strong>More than 1000</strong></td>
<td>NEW JOBS CREATED</td>
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<tr>
<td><strong>530</strong></td>
<td>MASTER CLASSES, SEMINARS AND WORKSHOPS WERE HELD AT THE ASTANA HUB (these events were attended by more than 16.8 thousand people)</td>
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</table>

**PLANS FOR 2020**

- **Not less than 2** REGIONAL ACCELERATORS/INCUBATORS SUPPORTED BY TECHNOPARK
- **EXPANDING THE ASTANA HUB INFRASTRUCTURE**
- **8** CREATION OF INNOVATIVE CLUSTERS (INDUSTRY 4.0, SMART CITY, ARTIFICIAL INTELLIGENCE, FIN TECH, GOV TECH, NEW MATERIALS, AEROSPACE INDUSTRY, NEW ENERGY)
- **15,2 BILLION TENGE** ATTRACTING INVESTMENT
DIRECTION 5: CREATING AN INNOVATION ECOSYSTEM
SUPPORT OF LOCAL ICT MARKET

4,935
NUMBER OF IT COMPANIES

48,984
IT MARKET EMPLOYMENT

60%
SHARE OF LOCAL CONTENT IN IT SERVICE

$25 MILLION
VOLUME OF EXPORTS

INFORMATION ON ICT COMPANIES
(TAXES OVER 50 MILLION TENGE)

126 COMPANIES

35 IT-CHAMPIONS

SELECTION OF IT CHAMPIONS BASED ON 12 CRITERIAS

BEST START-UPS

Clockster
Cloud HR control system and access management

KidSecurity
free GPS tracker app for phone

Nommi
Wireless router with worldwide access to the Internet

APPROVED ROAD MAP FOR THE DEVELOPMENT OF IT INDUSTRY FOR 2019-2020

«IT CHAMPIONS» PROGRAM DEVELOPED
• 35 IT COMPANIES WERE SELECTED
• INDIVIDUAL ROAD MAPS DESIGNED

EXPORT SUPPORT OF IT COMPANIES:
• REIMBURSEMENT OF EXPENSES ON MARKETING
• INSURANCE AND FINANCING OF CONTRACTS

DOCUMENTOLOGY
Cloud Document Management System

CERREK
Smart city implementation platform

Prime Source
Provision of services for the financial sector

Kaspi.kz
Online platform for consumers (onine sale, banking services)

ChocoFamily
Online platform for consumers (online sale, delivery)

Damumed
Medical Information System

SELECTION OF IT CHAMPIONS BASED ON 12 CRITERIAS
• 126 COMPANIES
• 35 IT COMPANIES WERE SELECTED
• INDIVIDUAL ROAD MAPS DESIGNED

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Wireless router with worldwide access to the Internet

203,292
NUMBER OF IT COMPANIES

48,984
IT MARKET EMPLOYMENT

60%
SHARE OF LOCAL CONTENT IN IT SERVICE

$25 MILLION
VOLUME OF EXPORTS

INFORMATION ON ICT COMPANIES
(TAXES OVER 50 MILLION TENGE)

126 COMPANIES

35 IT-CHAMPIONS

SELECTION OF IT CHAMPIONS BASED ON 12 CRITERIAS

BEST START-UPS

Clockster
Cloud HR control system and access management

KidSecurity
free GPS tracker app for phone

Nommi
Wireless router with worldwide access to the Internet

APPROVED ROAD MAP FOR THE DEVELOPMENT OF IT MARKET FOR 2019-2020

«IT CHAMPIONS» PROGRAM DEVELOPED
• 35 IT COMPANIES WERE SELECTED
• INDIVIDUAL ROAD MAPS DESIGNED

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RESULTS

**TOTAL ECONOMIC IMPACT**

- **2019**: 584.3 bln.tg.
- **2018**: 218.2 bln.tg.

**NEW JOBS WERE CREATED DUE TO DIGITALIZATION**

- **2019**: 78 thousand*
- **2018**: 42 thousand

**INVESTMENT ATTRACTED**

- **2019**: 18.8 bln.tg.
- **2018**: 14 bln.tg.

**INCOME GENERATED**

- **2019**: 802.5 Billion tenge
- **2018**: 584.3 Billion tenge

**FUNDING FROM THE REPUBLICAN BUDGET TO DIGITAL KAZAKHSTAN**

- **In 2019**: 20.7 billion tenge
- **In 2018**: 20.8 billion tenge

**INVESTMENTS ATTRACTED IN 2019**

- **32.8 Billion tenge**

**INCOME GENERATED FROM INNOVATION ECOSYSTEM**

- **32.8 Billion tenge**

**INCOME GENERATED FROM 3G AND 4G**

- **176 Billion tenge**

* - operative data
THANK YOU FOR ATTENTION!